

Claims

1. A method for taking measurements in a mobile telecommunications system, the system comprising a network of a plurality of cells and at least one user equipment device, the method comprising, at the user equipment device:
 - 5 scanning frequency bands to generate measurement data for signals received from cells of the network; and
 - identifying from the measurement data the cell which best meets a cell selection criterion;
 - 10 determining whether the identified cell is suitable; and
 - when the identified cell is deemed unsuitable, re-initiating the scanning step with the omission from the scan of the cell previously identified as the cell which best meets a cell selection criterion.
- 15 2. A method according to claim 1 further comprising when the identified cell is deemed unsuitable, re-initiating the scanning step with the omission from the scan of the frequency band of the cell previously identified as the cell which best meets a cell selection criterion.
- 20 3. A method according to claim 2 wherein an identified cell is deemed unsuitable when the identified cell is barred with the an "Intra-frequency cell-reselection indicator" set to "not allowed".
4. A method according to claim 1 further comprising determining whether the measurement data meets a predetermined criterion and storing the measurement data in an order relative to the meeting of the criterion.
- 25 5. A method according to claim 1 further comprising
- determining whether the measurement data meets a predetermined criterion
- 30 and storing the measurement data in an order relative to the meeting of the criterion;

-identifying from the stored measurement data the cell which best meets a cell selection criteria;

determining whether the identified cell is suitable; and

5 when the identified cell is deemed unsuitable, identifying from the stored measurement data the cell with the next strongest signal at any frequency and determining whether the newly identified cell is suitable.

6. Apparatus for taking measurements in a mobile telecommunications system, the system comprising a network of a plurality of cells and at least one user
10 equipment device, the apparatus comprising a processor and memory, the apparatus being arranged to carry out the following steps:

scanning frequency bands to generate measurement data for signals received from cells of the network; and

15 identifying from the generated measurement data the cell which best meets a cell selection criterion;

determining whether the identified cell is suitable; and

when the identified cell is deemed unsuitable, re-initiating the scanning step with the omission from the scan of the cell previously identified as the cell which best
meets a cell selection criterion.

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7. Apparatus according to claim 6 wherein the apparatus is further arranged, when the identified cell is deemed unsuitable, to re-initiate the scanning step with the omission from the scan of the frequency band of the cell previously identified as the cell which best meets a cell selection criterion.